

SWBAT: compare electric forces

Jan 4-7:20 AM

# Welcome!!!

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SECA Physics  
Friday 31 January 2014

Centering

- \* Pick up:
  - slip of paper (for later)

Opening question:

Which do you think is stronger:  
electric forces or gravitational forces?



< 1 kg WAY!!! EARTH  
6,000,000,000,000,000,000,000,000  
 $6 \times 10^{24}$  kg

comb & tissue demo

Sep 7-7:04 AM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

**Reminder:**

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

### Review:

What's an **ATOM** like?

\*proton\* neutron \*electron\*  
↳ posv.                      ↳ NEGV

Which is in the nucleus (center)?

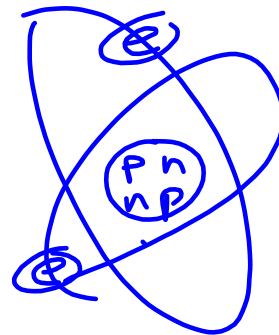
protons & neutrons

Which has a positive charge?

PROTONS

Which has a negative charge?

electrons



Jan 31-7:19 AM

Balloons  $\ominus$  like to get

Let's explore...

EXTRA ELECTRONS  $\Rightarrow$  NEGATIVE

What do you observe with balloon?

BLACK CLOTH

WHITE PIPE  $\ominus$  : REPEL

GLASS  $\oplus$  : ATTRACT

GREY PL  $\ominus$  : REPEL

TRIBOELECTRIC

Fundamental: Opposite Charges ATTRACT,  
Like Charges REPEL!

B  
(#

Nov 15-7:20 AM

Field trip visiting colleges, so...

Mythbusters: Match heads and burning rubber

Jan 31-8:29 AM

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Sep 9-7:32 AM

1. Which has a positive charge?

- ☒ A. proton
- ☐ B. neutron
- ☐ C. electron

2. Opposite charges ATTRACT. Like charges repel.

3. How many match heads got used in the youtube video (and mythbuster test)

- ☐ A. 300
- ☐ B. 3,000
- ☒ C. 30,000
- ☐ D. 3,000,000

Feb 1-7:52 AM